

MINING APPLICATION
NO. _____

Date: May 10, 1977

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1588 West North Temple
Salt Lake City, Utah 84116



NOTICE OF INTENTION TO COMMENCE MINING OPERATIONS
(See Rule M of General Rules and Regulations)

1. Name of Applicant or Company Tintic Division, Kennecott Copper Corp.
Corporation (X) Partnership () Individual ()
2. Address P.O. Box 250, Eureka, Utah 84628
Permanent Temporary
3. Name and title of person representing Company Robert H. Peterson
4. Address P.O. Box 250, Eureka, Utah 84628 Office Phone 801-433-6854
5. Location of Operation See Appendix A; paragraph A-1 and attached map
County Sec. T. R.
6. Name of Mine See Appendix A; paragraph A-2
7. Mineral to be mined: Mining Method:
- | | | |
|--|--------------------------|-------|
| () Coal | () Flagstone | _____ |
| (X) Copper | () Gravel | _____ |
| () Manganese | () Shale | _____ |
| () Iron Ore | () Uranium | _____ |
| () Phosphate | () Gilsonite | _____ |
| () Potash | () Bituminous Sandstone | _____ |
| () Fluorspar | () Tungsten | _____ |
| (X) Other (Specify) <u>Lead, Zinc, Silver and Gold</u> | | |
8. Have you or any Person, Partnership or Corporation associated with you received an approved Notice of Intention to Commence Mining Operations by the State of Utah for operations other than described herein?
() Yes () No
- If yes, list all approval numbers now under surety:
- _____

9. Owner/Owners of record of the surface area within the land to be affected:
- See Appendix A; paragraph A-4 Address _____
- _____ Address _____
- _____ Address _____

10. Owner/Owners of record of minerals to be mined:

Same as No. 9 above

Address

Address

Address

Address

11. Owner/Owners of record of all other minerals within any part of the land affected:

Same as above

Address

Address

Address

Address

- 11a. Have the above owners been notified in writing?
(X) Yes () No

12. Source of Operator's legal right to enter and conduct operations on land to be covered by the Notice Lease and ownership of patented and unpatented mining claims
13. Approximate acreage to be disturbed: 1,000

Mining operation area (include operations, storage, and disposal area):

900

acres +

Access Road or Haulageway:

100

acres +

Drainage System:

1,000

acres =

Total Acres:

acres

14. Give the names and post office addresses of every principal Executive,
Officer, Partner, (or Person performing a similar function) of Applicant:
- | Name | Title | Address |
|------|-------|---------|
|------|-------|---------|

a. H. H. Kremer

President Metal Mining
Division

Kennecott Copper Corporation
161 East 42nd Street
New York, New York 10017

b.

C. Robert H. Peterson

General Manager
Tintic Division

P.O. Box 250
Eureka, Utah 84628

d.

15. Has Applicant, any Subsidiary or Affiliate or any Person, Partnership, Association, Trust or Corporation controlled by or under common control with Applicant, or any Person required to be identified by Item 14, ever had an approval of a Notice of Intention withdrawn or has surety relating thereto ever been forfeited? Yes. () No (X)

If yes, explain:

STATE OF Utah

COUNTY OF Juab

I, Robert H. Peterson, having been duly sworn
depose and attest that all of the representations contained in the foregoing
application are true to the best of my knowledge; that I am authorized to
complete and file this application on behalf of the applicant and this
application has been executed as required by law.

Signed: Robert H. Peterson

Taken, subscribed and sworn to before me the undersigned authority
in my said county, this 19th day of May, 19 77.

Notary Public: Frederick J. Hum

My Commission Expires: January 7, 1979

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MINING AND RECLAMATION PLAN

(Other forms may be used in lieu of MRA 2, provided they contain the same information.)

1. Name of Applicant or Company Tintic Division, Kennecott Copper Corporation
2. Proposed type of operation Underground Mining
3. (a) Prior Land Use(s) Mining and livestock grazing
(b) Current Land Use(s) Mining and livestock grazing
(c) Possible or Prospective Future Land Use(s) Mining and livestock grazing
4. What vegetation exists on the land proposed to be affected juniper,
pinion pine, and sage
(a) Types and Estimated Percent Cover or Density: See Appendix B;
paragraph B-1
5. What is the range pH of soil before mining? _____ pH.
Name of Person or Agency and method of determining pH See Appendix B;
paragraph B-1
6. Site elevation above sea level Ranges from 5,400' to 7,300'
7. In case of coal, oil shale, and bituminous sandstone:
Principal seam(s) and thickness(es) _____
8. Estimated duration of mining operations 50
9. Has overburden, waste or rejected materials been classified as acid or alkali producing? () Yes (X) No
Does the above material being moved have any other characteristics affecting revegetation? No
10. Will any underground workings or aquifers be encountered? () Yes () No
Describe See Appendix B; paragraph B-2
Is there an active discharge of water from abandoned deep mines on or crossing the land affected? () Yes (X) No If Yes, describe the quality of water being discharged. _____

11. Describe specifically a detailed procedure for:

- a. The mining sequence.
- b. The procedure for constructing and maintaining access roads, to include a typical cross-section and a profile of the proposed road grades.
- c. The procedure for site preparation including removing trees and brush.
- d. The method for removing and stockpiling topsoil or disturbed materials.
- e. The method for the placement or containment of all disturbed materials, to include the method for handling of all acid or alkali-producing and toxic material.
- f. A procedure for final stabilization of disturbed materials.

GRADING AND REGRADING

Specifically describe: See Appendix B; paragraph B-3

- a. Typical cross-section of regrading.
- b. The method of spreading topsoil or upper horizon material on the regraded area and indicate the approximate thickness of the final surfacing material.
- c. What type of soil treatment will be utilized.
- d. The method of drainage control for the final regraded area.
- e. Maximum grading slope.

TESTING

1. a. Describe method for testing stability of reclamation fill material.
See Appendix B

b. Describe method for the testing of soil that is intended to support vegetation.

2. Describe any soil treatment employed as an aid to revegetation.

See Appendix B

3. Describe surface preparation of areas intended to support vegetation:

See Appendix B

REVEGETATION

1. Revegetation to be completed by:

<input type="checkbox"/> Operator	<input type="checkbox"/> Hydroseeding
<input type="checkbox"/> Soil Conservation District	<input type="checkbox"/> Aerial Seeding
<input type="checkbox"/> Private Contractor _____ (Name)	<input type="checkbox"/> Conventional or Rangeland Drilling
<input type="checkbox"/> Other (Specify) _____	<input type="checkbox"/> Other (Specify) _____

2. Will Mulch Be Used?

Type _____

Rate/Acre _____

lbs. _____

3. Revegetation Plan and schedule -

Species	Rate/ acre	Planting location	Facing N-S-E-W	Season to to be Replanted

4. Will affected area be subject to livestock or wildlife grazing: (X) yes
() No Will vegetation protection be needed? Fencing will be used to
protect reseeded areas as required
5. Will irrigation be used? () Yes (X) No Type _____
6. Describe maintenance procedures for revegetation if needed, until surety
release is granted. See Appendix B; paragraph B-4

I, the undersigned Operator, hereby submit this to be my Reclamation and Mining plan for the area shown on the attached map. I further understand that the operation will be conducted in accordance with the Mined Land Reclamation Act of 1975, and all rules and regulations currently in effect thereunder.

Signed R. A. Peterson Operator, Date May 19, 1977

Taken, subscribed and sworn to before me the undersigned authority in my said county, this 19th day of May, 19 77.

Notary Public

My Commission Expires:

Jan. 7, 1979

87

MINING AND RECLAMATION PLAN
APPENDIX A

- A-1) Mining and concentrating operations are planned in Sections 3, 10, 11, 14, 15, 19, 20, 22, 28, 29 and 30, T. 10 S., R. 2 W., Juab and Utah Counties.
- A-2) The Tintic Division is operating the Burgin, Trixie, Mammoth and Water Lily mines. In addition, operations are planned at the Ball Park (Section 10), Colorado-Utah (Section 20), Zuma (Section 21), Grand Central (Section 19) and Iron Blossom (Section 29).
- A-3) The mining operation will be underground and will utilize a combination of methods ranging from room and pillar to shrink stope. Ground conditions and ore habits require a highly flexible operation not amenable to long range planning.
- A-4) The following are owners of record of surface and minerals of the area to be affected.
- Chief Consolidated Mining Company, 747 Third Avenue,
New York, New York 10017
- Amax Arizona Inc. 130 South Scott, Tucson, Arizona 85702
- Eureka Standard Consolidated Mining Company, 130 South
Scott, Tucson, Arizona 85702
- South Standard Mining Company, 1114 Walker Bank Bldg.,
Salt Lake City, Utah 84111
- Pinyon Queen Mining Company, 1114 Walker Bank Bldg.,
Salt Lake City, Utah 84111
- Central Standard Consolidated Mines Company, %Tracy-Collins
Bank and Trust Company, 151 South Main, Salt Lake
City, Utah 84101
- Mammoth Mining Company, Box 20, Eureka, Utah 84628
- Mammoth No. 2 Mining Company, Box 20, Eureka, Utah 84628
- Gold Chain Mining Company, Box 20, Eureka, Utah 84628
- Opohongo Mining Company, Box 20, Eureka, Utah 84628
- Cleveland Mining Company, Box 20, Eureka, Utah 84628
- Utah Consolidated Mining Company, Box 20, Eureka, Utah 84628
- Kennecott Copper Corporation, 161 East 42nd Street, New York,
New York 10017

APPENDIX B

- B-1) Present mine and mill facilities will be utilized wherever possible. No native vegetation exists at these locations. New surface facilities that will be required are at locations where juniper, pinion pine and sage exists. The types and density vary greatly from individual locations. The pH of the soil varies from strongly acidic in the vicinity of old dumps to moderately basic in other areas.
- B-2) All mines except the Mammoth and Grand Central will ultimately be operated below the present water table. Water disposal will follow the present disposal plan approved by and on file with the Utah State Engineer. In the case of the Mammoth and Grand Central mines, water will be discharged into old workings adjacent to the two mines and will not be discharged on the surface.
- B-3) Ore presently available will be mined using existing workings where possible. Exploration and development will continue to provide added ore reserves and extend the known life of the total operation. Development waste rock will be utilized as backfill wherever possible in presently unfilled stopes and in new stopes as opened.

Present access roads will be used when possible. New roads will be planned, constructed and maintained to prevent conditions detrimental to the general area.

Existing dumps are being shipped for processing and will continue as economic conditions warrant. Over 150,000 tons have been removed to date. Upon removal of old dump material and exposure of pre-dump original surfaces, indigenous vegetation or improved types will be seeded using the most efficient method available at the time of reseeding.

All present tailings ponds will be reprocessed as economic conditions warrant. Tailings not workable will ultimately be used as mine backfill. Tailing pond areas will be reclaimed using the most efficient methods available at time of reclamation.

- B-4) In summary, land reclamation of property controlled by Kennecott in the Tintic District is in progress. Old dumps are shipped wherever possible, open shafts are being fenced and/or covered with approximately 95% completion and roads not required are closed to allow natural vegetation to rehabilitate itself. Each individual area will be reclaimed at completion of its mining cycle. Because of the diverse nature of the Tintic operation, each small segment will be treated as a separate entity and will require a totally separate plan for reclamation.

On completion of the total mining cycle, all dumps, roads and surface workings will be stabilized using the most efficient method possible at time of completion.